

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Sutter Maintenance Yard Wadsworth Canal**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2013 Levee Inspection Results**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway			Bank	Unit Miles
Unit No. 01 Wadsworth Canal			Left	4.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/09/2013 - 04/09/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal							Left	4.66	04/09/2013 04/09/2013	Bob Duffey
LMR No.	Levee Mile		Category	Item	* Location	*** Rating +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1				Operations & Maintenance Manuals	WS	A Ma		° °	° °	10
								DWR ID: DWR_ST0010_01_s_2013_10		
2				Emergency Supplies & Equipment	WS	A Ma		° °	° °	11
								DWR ID: DWR_ST0010_01_s_2013_11		
3				Flood Preparedness & Training	WS	A Ma		° °	° °	12
								DWR ID: DWR_ST0010_01_s_2013_12		
4	1.74	1.74	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_2-1_L]	39.141757 ° -121.742939 °	39.133887 ° -121.749526 °	7
								DWR ID: DWR_ST0010_01_s_2013_7		
5	2.40	2.40		Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.141697 ° -121.742819 °	39.141697 ° -121.742819 °	14 Y
								DWR ID: DWR_ST0010_01_s_2012_14		
6	2.43	2.43	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_2-4_L]	39.153095 ° -121.734390 °	39.142235 ° -121.742609 °	8
								DWR ID: DWR_ST0010_01_s_2013_8		
7	2.76	2.76		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.146063 ° -121.739288 °	39.146063 ° -121.739288 °	1 Y
								DWR ID: DWR_ST0010_01_s_2012_1		
8	2.84	2.84		Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.147066 ° -121.738452 °	39.147066 ° -121.738452 °	6 Y
								DWR ID: DWR_ST0010_01_s_2013_6		
9	3.31	3.31		Erosion / Bank Caving	WS	M Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.152875 ° -121.734320 °	39.152875 ° -121.734320 °	13 Y
								DWR ID: DWR_ST0010_01_s_2012_13		
10	3.56	3.59		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.156225 ° -121.732930 °	39.156639 ° -121.732755 °	3 Y
								DWR ID: DWR_ST0010_01_s_2012_3		
11	3.68	3.68		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.157861 ° -121.732238 °	39.157861 ° -121.732238 °	4 Y
								DWR ID: DWR_ST0010_01_s_2012_4		
12	4.27	4.27		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.165845 ° -121.728877 °	39.165845 ° -121.728877 °	5
								DWR ID: DWR_ST0010_01_s_2012_5		

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	04/09/2013 04/09/2013	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	2.40
End Levee Mile	2.40
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the fences.

rduffey\_s\_20130225\_291.jpg



Levee Mile Report Line	7
Start Levee Mile	2.76
End Levee Mile	2.76
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of erosion along W/S toe.

rduffey\_s\_20130225\_287.jpg



Levee Mile Report Line	8
Start Levee Mile	2.84
End Levee Mile	2.84
Location	Land Side
Category	
Item	Vegetation

View of the native grass on both slopes.

rduffey\_s\_20130403\_352.JPG



**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.66	04/09/2013 04/09/2013	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	3.31
End Levee Mile	3.31
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the fences.

rduffey\_s\_20130225\_290.jpg



Levee Mile Report Line	10
Start Levee Mile	3.56
End Levee Mile	3.59
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the waterside toe of the levee.

rduffey\_s\_20130225\_288.jpg



Levee Mile Report Line	11
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the waterside toe of the levee.

rduffey\_s\_20130225\_289.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2013 Levee Inspection Results**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway			Bank	Unit Miles
Unit No. 02 Wadsworth Canal			Right	4.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/21/2013 - 03/21/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	03/21/2013 03/21/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.78	0.78		Animal Control	LS	A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.123115 ° -121.760723 °	39.123115 ° -121.760723 °	10 Y
DWR ID: DWR_ST0010_02_f_2012_10										
2	1.17	1.17		Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.127648 ° -121.756345 °	39.127648 ° -121.756345 °	3 Y
DWR ID: DWR_ST0010_02_s_2012_3										
3	1.72	1.72		Animal Control	WSA/W	Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.133945 ° -121.750250 °	39.133945 ° -121.750250 °	15 Y
DWR ID: DWR_ST0010_02_f_2012_15										
4	1.74	1.74	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_2-1_R]	39.141814 ° -121.743260 °	39.134064 ° -121.749781 °	12
DWR ID: DWR_ST0010_02_s_2013_12										
5	1.77	1.77		Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.134490 ° -121.749716 °	39.134490 ° -121.749716 °	11 Y
DWR ID: DWR_ST0010_02_f_2012_11										
6	1.86	1.86		Animal Control	LS A/W	Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.135535 ° -121.748678 °	39.135535 ° -121.748678 °	8 Y
DWR ID: DWR_ST0010_02_s_2012_8										
7	2.44	2.44	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_2-4_R]	39.153150 ° -121.734611 °	39.142254 ° -121.742847 °	13
DWR ID: DWR_ST0010_02_s_2013_13										
8	2.63	2.63		Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.144612 ° -121.741205 °	39.144612 ° -121.741205 °	9 Y
DWR ID: DWR_ST0010_02_s_2013_9										
9	3.30	3.30		Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	39.152903 ° -121.734906 °	39.152903 ° -121.734906 °	14 Y
DWR ID: DWR_ST0010_02_s_2012_14										
10	3.46	3.46		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.155057 ° -121.733985 °	39.155057 ° -121.733985 °	4 Y
DWR ID: DWR_ST0010_02_s_2012_4										
11	3.59	3.99		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.156753 ° -121.733267 °	39.162113 ° -121.730997 °	5 Y
DWR ID: DWR_ST0010_02_s_2012_5										
12	4.41	4.41	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - Small erosion pocket. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: WAD_4-3_R]	39.168937 ° -121.727905 °	39.168659 ° -121.728016 °	16
DWR ID: DWR_ST0010_02_s_2013_16										
13	4.49	4.49		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.168848 ° -121.728130 °	39.168848 ° -121.728130 °	6 Y
DWR ID: DWR_ST0010_02_s_2012_6										
14	4.55	4.55		Erosion / Bank Caving	WSA/W	Ma	E1 : Note and monitor erosion site.	39.169670 ° -121.727787 °	39.169670 ° -121.727787 °	7 Y
DWR ID: DWR_ST0010_02_s_2012_7										

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	03/21/2013 03/21/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.78
End Levee Mile	0.78
Location	Land Side
Category	
Item	Animal Control
View of the repaired rodent holes along the landside slope.	
rduffey_s_20130402_345.JPG	



Levee Mile Report Line	2
Start Levee Mile	1.17
End Levee Mile	1.17
Location	Land Side
Category	
Item	Slope Stability
View of vehicle erosion along L/S slope.	
rduffey_s_20130225_292.jpg	



Levee Mile Report Line	3
Start Levee Mile	1.72
End Levee Mile	1.72
Location	Water Side
Category	
Item	Animal Control
View of the grouted rodent holes.	
rduffey_s_20130403_350.JPG	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	03/21/2013 03/21/2013	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	
Item	Animal Control
USACE 2011 Photo #1	
rduffey_s_20130225_299.jpg	



Levee Mile Report Line	5
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	
Item	Animal Control
USACE 2011 Photo #2	
rduffey_s_20130225_300.jpg	



Levee Mile Report Line	5
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	
Item	Animal Control
View of the rodent holes on both sides of the irrigation pipe.	
rduffey_s_20130225_301.JPG	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	03/21/2013 03/21/2013	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Land Side
Category	
Item	Animal Control

View of the area where the rodent holes have been grouted.

rduffey\_s\_20130225\_297.JPG



Levee Mile Report Line	8
Start Levee Mile	2.63
End Levee Mile	2.63
Location	Land Side
Category	
Item	Vegetation

View of the native grass on both slope.

rduffey\_s\_20130403\_351.JPG



Levee Mile Report Line	9
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey\_s\_20130225\_302.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	03/21/2013 03/21/2013	Bob Duffey

Levee Mile Report Line	10
Start Levee Mile	3.46
End Levee Mile	3.46
Location	Water Side
Category	
Item	Erosion / Bank Caving
View of the erosion at the waterside toe of the levee.	
rduffey_s_20130225_293.jpg	



Levee Mile Report Line	11
Start Levee Mile	3.59
End Levee Mile	3.99
Location	Water Side
Category	
Item	Erosion / Bank Caving
View of the erosion along the waterside toe.	
rduffey_s_20130225_294.jpg	



Levee Mile Report Line	13
Start Levee Mile	4.49
End Levee Mile	4.49
Location	Water Side
Category	
Item	Erosion / Bank Caving
View of erosion along the W/S toe.	
rduffey_s_20130225_295.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2013**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.66	03/21/2013 03/21/2013	Bob Duffey

Levee Mile Report Line	14
Start Levee Mile	4.55
End Levee Mile	4.55
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey\_s\_20130225\_296.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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